

Applicant: Friedrich BOECKING
Docket No. R.306606
Preliminary Amdt.

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-15. (Canceled)

16. **(New)** In a fuel injector for internal combustion engines, having a high-pressure fuel reservoir, which fuel injector includes a pressure booster and an injection valve member that has at least one booster portion and one needle portion that closes at least one injection opening, the improvement wherein the pressure booster is received in a booster housing and is braced on a spring element which surrounds the booster housing, as a result of which the booster housing is fixed on a nozzle housing part that encloses the injection valve member.

17. **(New)** The fuel injector according to claim 16, wherein the booster housing is enclosed by an injector housing part.

18. **(New)** The fuel injector according to claim 16, wherein the fuel injector is triggered by a piezoelectric actuator.

19. **(New)** The fuel injector according to claim 17, wherein the fuel injector is triggered by a piezoelectric actuator.

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20. **(New)** The fuel injector according to claim 18, wherein the piezoelectric actuator acts directly on an upper end face of the pressure booster.

21. **(New)** The fuel injector according to claim 19, wherein the piezoelectric actuator acts directly on an upper end face of the pressure booster.

22. **(New)** The fuel injector according to claim 16, wherein the booster portion of the injection valve member is enclosed by a sleeve.

23. **(New)** The fuel injector according to claim 17, wherein the booster portion of the injection valve member is enclosed by a sleeve.

24. **(New)** The fuel injector according to claim 18, wherein the booster portion of the injection valve member is enclosed by a sleeve.

25. **(New)** The fuel injector according to claim 20, wherein the booster portion of the injection valve member is enclosed by a sleeve.

26. **(New)** The fuel injector according to claim 22, wherein the sleeve laterally defines and seals off a booster chamber.

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27. **(New)** The fuel injector according to claim 26, wherein the booster chamber is defined on two diametrically opposite sides by a lower end face of the pressure booster and by an end face of the booster portion of the injection valve member.

28. **(New)** The fuel injector according to claim 26, wherein the sleeve comprises a bite edge, which is pressed, by means of a spring element surrounding the booster portion of the injection valve member, against a shoulder of the booster housing and thus forms a pressure-tight lateral boundary of the booster chamber.

29. **(New)** The fuel injector according to claim 16, wherein the injection valve member includes a guide portion having at least one ground and polished surface.

30. **(New)** The fuel injector according to claim 29, wherein the guide portion of the injection valve member is guided in a needle guide in the nozzle housing part.

31. **(New)** The fuel injector according to claim 16, wherein the booster housing is guided with a step in the injector housing part.

32. **(New)** The fuel injector according to claim 16, further comprising a first spring chamber, surrounding the booster housing, and a second spring chamber, surrounding the booster portion of the injection valve member, the spring chambers and communicating hydraulically

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with one another through at least one groove in the step, an annular gap, and grooves in the nozzle housing part.

33. **(New)** The fuel injector according to claim 32, further comprising a pressure chamber surrounding the needle portion of the injection valve member, the pressure chamber and the second spring chamber surrounding the booster portion of the injection valve member communicating hydraulically with one another by means of the at least one ground and polished surface in the guide portion of the injection valve member.

34. **(New)** The fuel injector according to claim 32, wherein system pressure prevails in the first spring chamber, in the second spring chamber, and in the pressure chamber.

35. **(New)** The fuel injector according to claim 26, wherein the booster chamber is supplied with fuel by reference leakage between the sleeve and the booster portion of the injection valve member, and between the booster housing and the pressure booster.